

Name _____ Date _____

Invisible Forces Unit Assessment - Short Response

3-PS2A 3-PS2B

1. Why do hoppers hop off the table?

2. Why are pillar bridges and arch bridges stronger than board bridges?



pillar bridge



arch bridge



board bridge

3. If you wanted to go down a slide faster, what are some things you could do?
Why would those things help?

4. Are paper clips magnets? Explain.

Name _____ Date _____

Invisible Forces - Unit Assessment - Multiple Choice

- 1) Why is it hard to win a tug-of-war against a group of teachers?
 - a. Teachers try really hard.
 - b. Teachers have more legs than students.
 - c. Teachers have a lot of friction.
 - d. Teachers can push really hard.

- 2) The last rubber band caused the watermelon to burst because _____.
 - a. it was stronger than the other rubber bands.
 - b. it was thicker than the other rubber bands.
 - c. it was the last rubber band in the bag.
 - d. it created a force that was greater than the force of the watermelon rind.

- 3) Why was a suspension bridge a good design for the Golden Gate Bridge in San Francisco?
 - a. Ships had to pass underneath the bridge.
 - b. It has a lot of pillars underneath to support it.
 - c. The distance the bridge had to cross wasn't very long.
 - d. The water under the bridge was very shallow.

- 4) Sandpaper sliders don't slide very fast because _____.
 - a. sand makes the slider too heavy.
 - b. sandpaper creates a lot of friction.
 - c. it didn't have enough pennies on it.
 - d. the slide isn't long enough.

- 5) Magnets attract _____.
 - a. objects that contain iron.
 - b. only other magnets.
 - c. anything made of metal.
 - d. things that are not too heavy.